

Ozone Testing Worksheet

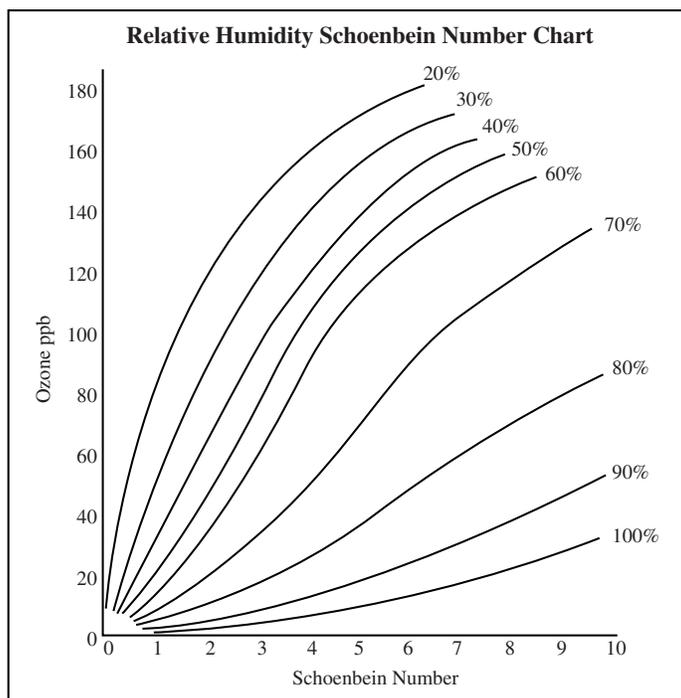
Test Site (Describe)	Schoenbein Color Scale Number	Relative Humidity	Ozone ppb
1			
2			
3			
4			

- Record the relative humidity reading for each test site in the chart above.
- Determine the best approximation of the Schoenbein Number using the relative scale description. Record the number in the chart above.

0-3	No change to little change
4-6	Pink to lavender hues
7-10	Blue to purple

Schoenbein Number Scale

- Refer to the Relative Humidity Schoenbein Number Chart below. Along the bottom of the chart, find the point that corresponds to the Schoenbein number recorded for #2 above. From that point draw a line upward until it intersects the curve that corresponds to the relative humidity recorded in #1 above. To find the ozone concentration in parts per billion, draw a line perpendicular from the intersection point to the vertical axis on the chart. Record the ppb number for the test site.



- Discuss these questions:
 - Compare test papers from various test sites. Does the concentration of ozone vary from site to site?
 - How does the relative humidity affect the ozone readings?
 - Would the parts per billion of ozone be the same for a Schoenbein number of 3 for 20% and 80% humidity?
 - Do you think this is a good method for measuring tropospheric ozone?